

Helicobacter pylori density and expression of gastric mucosal interleukin-8 in dyspeptic patients

Type: Article

Abstract:

Background: The density of the H. pylori colonies is associated with more severe clinical manifestations, chronic infections, ineffective therapy responses and malignant events. Interleukin-8 (IL-8) is one of cytokines that plays a role in the inflammatory process that results in gastric mucosal damage. We determined the association between H. pylori density and gastric mucosal IL-8 expression in dyspeptic patients. **Methods:** H. pylori density was determined using histopathology based on Updated Sydney System. IL-8 levels were measured using immunohistochemistry from the gastric biopsy. **Results:** There was significant difference between gastric mucosal IL-8 expression obtained in gastric mucosal gland epithelium ($p = 0.028$) at mild and high density of H. pylori ($p = 0.013$). There was a correlation between H. pylori density with gastric mucosal IL-8 expression of glandular epithelium ($r = 0.622$; $p = 0.004$), surface epithelium ($r = 0.510$; $p = 0.026$), and inflammatory cells ($r = 0.054$; $p = 0.028$). **Conclusion:** We found a significant positive correlation between H. pylori density and gastric mucosal IL-8 expression in dyspeptic patients.

Author	a) Ismarini H. b) Nusi I.A. c) Maimunah U. d) Setiawan P.B. e) Purbayu H. f) Sugihartono T. g) Kholili U. h) Widodo B. i) Thamrin H. j) Miftahussurur M. k) Vidyani A.
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